In the Claims

Claims 1, 4, 5, 13, 16, 22, 23, 28, 32, 35, 36, 40, 43, 44, 46, 50, 51, 55, 60, 61, 65, 69, 70, 73, 76, 77, 91 and 97 are amended.

Claims 3, 21, 34, 42, 49, 59, 68, and 75 are cancelled without prejudice.

Claims 1, 2, 4-20, 22-33, 35-41, 43-48, 50-58, 60-67, 69-74, 76-97 remain in the application and are listed below:

1.   (Currently Amended) A computing device comprising:

one or more processors;

memory operably associated with the one or more processors;

one or more applications loadable in the memory and executable on the one or more processors; and

the one or more processors being configured to:

receive context information from externally of the device, the context information pertaining to one or more current device contexts;

automatically determine one or more current contexts from the context information using one or more hierarchical traversable tree structures, wherein the tree structures comprise individual nodes individual ones of which being associated with a context, wherein said one or more current contexts are determined by traversing at least one node on at least one of the tree structures, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an

individual node;

locally evaluate a collection of policies in connection with the one or more current contexts to provide a resultant set of policies; and

enforce the resultant set of policies on the one or more applications.

2.   (Original) The device of claim 1, wherein the device is configured to receive context information from multiple different context providers that provide different types of context information.

3.   (Cancelled).

4.   (Currently Amended) The device of claim 3 1, wherein the one or more hierarchical tree structures comprise at least one primary tree structure, at least one secondary tree structure, and at least one link between the primary and secondary tree structures, the link being traversable to determine the one or more current contexts.

5.   (Currently Amended) The device of claim 3 1, wherein the one or more hierarchical tree structures provide a common abstract representation of context.

6.   (Original) The device of claim 1, wherein the device is configured to determine the one or more current contexts dynamically.

7.   (Original) The device of claim 1, wherein the device is configured to receive policies from different policy sources.

8.   (Original) The device of claim 1, wherein the device is configured to receive policies from different policy sources, the policies from the different policy sources being defined in terms of a common abstract representation of context.

9.   (Original) The device of claim 1 embodied as an enterprise device, the collection of policies comprising at least enterprise policies that are defined in terms of a common abstract representation of context.

10.   (Original) The device of claim 1 embodied as a portable device.

11.   (Original) The device of claim 1 embodied as a wireless device.

12.   (Original) The device of claim 1 embodied as a handheld device.

13.   (Currently Amended) A computing device comprising:

one or more processors;

memory operably associated with the one or more processors;

one or more applications loadable in the memory and executable on the one or more processors; and

the one or more processors being configured to:

receive context information from externally of the device, the

context information pertaining to a current device context and determine a current context using one or more hierarchical traversable tree structures on the device, wherein the tree structures comprise individual nodes each of which being associated with a device context, wherein said current context is determined by traversing at least one node on at least one of the tree structures, and wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

enforce a set of policies on the one or more applications, the set of policies pertaining to a current context that is associated with the context information.

14.   (Original) The computing device of claim 13, wherein the one or more processors are configured to determine the current context from the context information.

15.   (Original) The computing device of claim 13, wherein the one or more processors are configured to locally evaluate a collection of policies, in connection with the received context information, to provide the set of policies.

16.   (Currently Amended) A method of operating a computing device comprising:

receiving context information from externally of a computing device, the context information pertaining to a current device context;

automatically determining, with the computing device, a current context using the context information,

wherein said act of automatically determining comprises:

providing one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device context, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

traversing at least one node on at least one of the tree structures to provide the current context;

evaluating a collection of policies in connection with the current context to provide a resultant set of policies; and

enforcing the resultant set of policies on one or more applications that are executable by the computing device.

17.   (Original) The method of claim 16, wherein said evaluating comprises locally evaluating the collection of policies using the computing device.

18.   (Original) The method of claim 16, wherein said evaluating comprises evaluating the collection of policies remote from the computing device.

19.   (Original) The method of claim 16, wherein said receiving comprises receiving context information from multiple different context providers that provide different types of context information.

20.   (Original) The method of claim 16, wherein said receiving comprises wirelessly receiving the context information.

21.   (Cancelled).

22.   (Currently Amended) The method of claim 21 16, wherein the one or more hierarchical tree structures comprise at least one primary tree structure, at least one secondary tree structure, and at least one link between the primary and secondary tree structures, the link being traversable to determine the device's current context.

23.   (Currently Amended) The method of claim 21 16, wherein the one or more hierarchical tree structures provide a common abstract representation of context.

24.   (Original) The method of claim 16 further comprising receiving policies from multiple different policy sources.

25.   (Original) The method of claim 16 further comprising receiving policies from multiple different policy sources, the policies being defined in terms of a common abstract representation of context.

26.   (Original) The method of claim 16, wherein the computing device comprises an enterprise computing device and further comprising receiving policies from an enterprise policy source, the policies being defined in terms of a common abstract representation of context.

27.   (Original) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to implement the method of claim 16.

28.   (Currently Amended) A method of operating a computing device comprising:

receiving context information from externally of a computing device, the context information pertaining to a current device context; and

automatically determining, with the computing device, a current context using the context information;

wherein said act of automatically determining comprises:

providing one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device context, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

traversing at least one node on at least one of the tree structures to provide the current context; and

enforcing ~~the resultant set of policies~~ a set of policies, which are the result of a collection of policies in connection with the current device context, on one or more applications that are executable by the computing device, the resultant set of policies pertaining to a context that is associated with the context information that is received.

29.   (Original) The method of claim 28 further comprising determining, on the computing device, a context that is associated with the context information.

30.   (Original) The method of claim 28 further comprising locally evaluating a collection of policies responsive to receiving the context information, said evaluating providing a resultant set of policies.

31.   (Original) The method of claim 28 further comprising receiving one or more policies from externally of the computing device, said one or more policies being associated with a context which is, in turn, associated with the context information.

32.   (Currently Amended) A computing device comprising:

one or more processors;

memory operably associated with the one or more processors;

one or more applications loadable in the memory and executable on the one or more processors; and

the one or more processors being configured to:

receive context information from externally of the device, the context information pertaining to a current device context;

automatically determine a current context from the context information using one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device context, the device being configured to determine its current context by traversing at least one node on at least one of the tree structures, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node;

locally evaluate a collection of policies in connection with the current context to provide a resultant set of policies;

enforce the resultant set of policies on the one or more applications;
~~and~~

responsive to receiving context information that indicates a change

of current context:

locally re-evaluate the collection of policies to provide a new

resultant set of policies; and

enforce the new resultant set of policies on the one or more

applications.

33.   (Original) The device of claim 32, wherein the device is configured

to receive context information from multiple different context providers that

provide different types of context information.

34.   (Cancelled).

35.   (Currently Amended) The device of claim ~~34~~ 32, wherein the one or

more hierarchical tree structures comprise at least one primary tree structure, at

least one secondary tree structure, and at least one link between the primary and

secondary tree structures, the link being traversable to determine the device's

current context.

36.   (Currently Amended) The device of claim ~~34~~ 32, wherein the one or

more hierarchical tree structures provide a common abstract representation of

context.

37. (Original) The device of claim 32, wherein the device is configured to determine current context dynamically.

38. (Original) The device of claim 32, wherein the device is configured to receive policies from different policy sources.

39. (Original) The device of claim 32, wherein the device is configured to receive policies from different policy sources, all of the policies being defined in terms of a common abstract representation of context.

40. (Currently Amended) A method of operating a computing device comprising:

wirelessly receiving context information from externally of a computing device, the context information pertaining to a current device context;

automatically determining, with the computing device, a current context using the context information;

wherein said act of automatically determining comprises:

providing one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device context, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

traversing at least one node on at least one of the tree structures to provide the current context;

locally evaluating, with the computing device, a collection of policies in connection with the current context to provide a resultant set of policies;

enforcing the resultant set of policies on one or more applications that are executable by the computing device;

determining whether the device's current context has changed and if so, automatically determining a new current context using received context information;

responsive to determining the new current context, locally re-evaluating, with the computing device, the collection of policies to provide a new resultant set of policies for the new current context; and

enforcing the new resultant set of policies on the one or more applications.

41.   (Original) The method of claim 40 wherein said receiving comprises receiving context information from multiple different context providers that provide different types of context information.

42.   (Cancelled).

43.   (Currently Amended) The method of claim 42 40, wherein the one or more hierarchical tree structures comprise at least one primary tree structure, at least one secondary tree structure, and at least one link between the primary and secondary tree structures, the link being traversable to determine the device's current context.

44.   (Original) The method of claim ~~42~~ 40, wherein the one or more hierarchical tree structures provide a common abstract representation of context.

45.   (Original) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to implement the method of claim 40.

46.   (Currently Amended) A computing device comprising:

one or more processors;

memory operably associated with the one or more processors;

one or more applications loadable in the memory and executable on the one or more processors; and

the one or more processors being configured to:

receive location information pertaining to a current device location;

automatically determine a current location from the location information <u>using one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device location, the device being configured to determine its current location by traversing at least one node on at least one of the tree structures, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node</u>;

locally evaluate a collection of policies in connection with the current location to provide a resultant set of policies; and

enforce the resultant set of policies on the one or more applications.

47.   (Original) The computing device of claim 46, wherein said one or more processors are configured to receive location information from externally of the device.

48.   (Original) The computing device of claim 46, wherein the device is configured to receive location information from multiple different location providers that provide different types of location information.

49.   (Cancelled).

50.   (Currently Amended) The computing device of claim ~~49~~ 46, wherein the one or more hierarchical tree structures comprise at least one primary tree structure, at least one secondary tree structure, and at least one link between the primary and secondary tree structures, the link being traversable to determine the device's current location.

51.   (Currently Amended) The computing device of claim ~~49~~ 46, wherein the one or more hierarchical tree structures provide a common abstract representation of location.

52.   (Original) The computing device of claim 46, wherein the device is configured to determine the current location dynamically.

53. (Original) The computing device of claim 46, wherein the device is configured to receive policies from different policy sources.

54. (Original) The computing device of claim 46, wherein the device is configured to receive policies from different policy sources, the policies from the different policy sources being defined in terms of a common abstract representation of location.

55. (Currently Amended) A method of operating a computing device comprising:

receiving location information pertaining to a current device location;

automatically determining, with the computing device, a current location using the location information;

wherein said act of automatically determining comprises:

providing one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device location, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

traversing at least one node on at least one of the tree structures to provide the current location;

locally evaluating, with the computing device, a collection of policies in connection with the current location to provide a resultant set of policies; and

enforcing the resultant set of policies on one or more applications that are

executable by the computing device.

56. (Original) The method of claim 55, wherein said receiving comprises receiving the location information from externally of the device.

57. (Original) The method of claim 55, wherein said receiving comprises receiving location information from multiple different location providers that provide different types of location information.

58. (Original) The method of claim 55, wherein said receiving comprises wirelessly receiving location information from multiple different location providers that provide different types of location information.

59. (Cancelled).

60. (Currently Amended) The method of claim 59 55, wherein the one or more hierarchical tree structures comprise at least one primary tree structure, at least one secondary tree structure, and at least one link between the primary and secondary tree structures, the link being traversable to determine the device's current location.

61. (Currently Amended) The method of claim 59 55, wherein the one or more hierarchical tree structures provide a common abstract representation of location.

62.   (Original) The method of claim 55 further comprising receiving policies from multiple different policy sources.

63.   (Original) The method of claim 55 further comprising receiving policies from multiple different policy sources, the policies being defined in terms of a common abstract representation of location.

64.   (Original) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to implement the method of claim 55.

65.   (Currently Amended) A computing device comprising:

one or more processors;

memory operably associated with the one or more processors;

one or more applications loadable in the memory and executable on the one or more processors; and

the one or more processors being configured to:

receive location information pertaining to a current device location;

automatically determine a current location from the location information using one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device location, the device being configured to determine its current location by traversing at least one node on at least one of the tree structures, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can

be assigned to goods or services associated with an individual node;

locally evaluate a collection of policies in connection with the current location to provide a resultant set of policies;

enforce the resultant set of policies on the one or more applications; and

responsive to receiving location information that indicates a change of current location:

locally re-evaluate the collection of policies to provide a new resultant set of policies; and

enforce the new resultant set of policies on the one or more applications.

66. (Original) The computing device of claim 65, wherein the one or more processors are configured to receive location information from externally of the device.

67. (Original) The computing device of claim 65, wherein the device is configured to receive location information from multiple different location providers that provide different types of location information.

68.   (Cancelled).

69.   (Currently Amended) The computing device of claim 69 65, wherein the one or more hierarchical tree structures comprise at least one primary tree structure, at least one secondary tree structure, and at least one link between the primary and secondary tree structures, the link being traversable to determine the device's current location.

70.   (Currently Amended) The computing device of claim 69 65, wherein the one or more hierarchical tree structures provide a common abstract representation of context.

71.   (Original) The computing device of claim 65, wherein the device is configured to receive policies from different policies sources.

72.   (Original) The computing device of claim 65, wherein the device is configured to receive policies from different policies sources, all of the policies being defined in terms of a common abstract representation of location.

73.   (Currently Amended) A method of operating a computing device comprising:

wirelessly receiving location information from externally of a computing device, the location information pertaining to a current device location;

automatically determining, with the computing device, a current location using the location information;

wherein said act of automatically determining comprises:

providing one or more hierarchical traversable tree structures on the device, the tree structures comprising individual nodes each of which being associated with a device location, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

traversing at least one node on at least one of the tree structures to provide the current location;

locally evaluating, with the computing device, a collection of policies in connection with the current location to provide a resultant set of policies;

enforcing the resultant set of policies on one or more applications that are executable by the computing device;

determining whether the device's current location has changed and if so, automatically determining a new current location using received location information;

responsive to determining the new current location, locally re-evaluating, with the computing device, the collection of policies to provide a new resultant set of policies for the new current location; and

enforcing the new resultant set of policies on the one or more applications.

74.   (Original) The method of claim 73, wherein said receiving comprises receiving location information from multiple different location providers that provide different types of location information.

75.   (Cancelled).

76.   (Currently Amended) The method of claim ~~75~~ 73, wherein the one or more hierarchical tree structures comprise at least one primary tree structure, at least one secondary tree structure, and at least one link between the primary and secondary tree structures, the link being traversable to determine the device's current location.

77.   (Currently Amended) The method of claim ~~75~~ 73, wherein the one or more hierarchical tree structures provide a common abstract representation of location.

78.   (Original) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to implement the method of claim 73.

79.   (Original) A computing device comprising:

one or more processors;

memory operably associated with the one or more processors;

one or more applications loadable in the memory and executable on the one or more processors; and

the one or more processors being configured to:

collect policies from multiple different policy sources to provide a collection of policies, the policies being expressed in terms of context dependencies associated with multiple different device contexts;

receive context information from externally of the device, the context information pertaining to a current device context;

automatically determine a current context from the context information;

locally evaluate the collection of policies in connection with the current context to provide a resultant set of policies; and

enforce the resultant set of policies on the one or more applications.

80.   (Original) The device of claim 79, wherein the device is configured to:

automatically determine when its context has changed;

locally re-evaluate the collection of policies to provide a new resultant set of policies responsive to a context change; and

enforce the new resultant set of policies.

81.   (Original) The device of claim 79, wherein the context comprises location.

82.   (Original) A method of operating a computing device comprising:

collecting policies from multiple different policy sources to provide a collection of policies, the policies being expressed in terms of context

dependencies associated with multiple different device contexts;

receiving context information from externally of a computing device, the context information pertaining to a current device context;

automatically determining a current context from the context information;

locally evaluating the collection of policies in connection with the current context to provide a resultant set of policies; and

enforcing the resultant set of policies on the device.

83.   (Original) The method of claim 82 further comprising:

automatically determining when a device context has changed;

determining a new device context;

locally re-evaluating the collection of policies in connection with the new device context to provide a new resultant set of policies; and

enforcing the new resultant set of policies on the device.

84.   (Original) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to implement the method of claim 82.

85.   (Original) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to implement the method of claim 83.

86. (Original) A programmable computing device programmed with instructions that implement the method of claim 82.

87. (Original) A programmable computing device programmed with instructions that implement the method of claim 83.

88. (Original) A method of providing policies for enforcement on computing devices comprising:

providing a representation of location using multiple hierarchical tree structures each of which comprising multiple nodes, each node representing a location that can be either a physical location or a logical location, the tree structures comprising at least one link between them that can serve as a basis for a traversal operation that traverses the multiple tree structures to derive a computing device location, and

expressing multiple policies as a function of the representation of location.

89. (Original) One or more computer-readable media having computer-readable instructions thereon which, when executed by a computer, cause the computer to implement the method of claim 88.

90. (Original) A method of providing policies for enforcement on computing devices comprising:

expressing multiple policies as a function of an abstract representation of location that uses multiple hierarchical tree structures each of which comprising multiple nodes, each node representing a location that can be either a physical

location or a logical location, the tree structures comprising at least one link between them that can serve as a basis for a traversal operation that traverses the multiple tree structures to derive a computing device location; and

making the multiple policies available to computing devices.

91. (Currently Amended) A computer architecture comprising:

a context service that provides context information or context change events that pertain to the context of a computing device; ~~and~~

wherein said context service determines context using one or more hierarchical traversable tree structures, the tree structures comprising individual nodes each of which being associated with a device context, the context service being configured to determine context by traversing at least one node on at least one of the tree structures, wherein individual nodes comprise an entity identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

a policy engine communicatively linked with the context service and configured to:

receive context information or context change events from the context service;

evaluate a collection of policies to provide a resultant set of policies responsive to the context information or context change events; and

enforce the resultant set of policies on a computing device.

92. (Original) The computer architecture of claim 91, wherein the policy engine is configured to enforce the resultant set of policies by promulgating new settings for one or more applications that are executable by the computing device.

93. (Original) The computer architecture of claim 91 wherein the policy engine is configured to enforce the resultant set of policies by promulgating new state for one or more applications that are executable by the computing device.

94. (Original) The computer architecture of claim 91, wherein the policy engine is configured to receive policies from multiple different policy sources.

95. (Original) A computing device embodying the computer architecture of claim 91.

96. (Original) An enterprise computing device embodying the computer architecture of claim 91.

97. (Currently Amended) A computer system comprising:

a context service that provides context information or context change events that pertain to the context of a computing device;

wherein said context service determines context using one or more hierarchical traversable tree structures, the tree structures comprising individual nodes each of which being associated with a device context, the context service being configured to determine context by traversing at least one node on at least one of the tree structures, wherein individual nodes comprise an entity

identification (EID) that is unique to the node, EIDs serving as a basis by which attributes can be assigned to goods or services associated with an individual node; and

a policy engine communicatively linked with the context service, but remote from the computing device, and configured to:

receive context information or context change events from the context service;

evaluate a collection of policies to provide a resultant set of policies responsive to the context information or context change events; and

provide the resultant set of policies to the computing device.